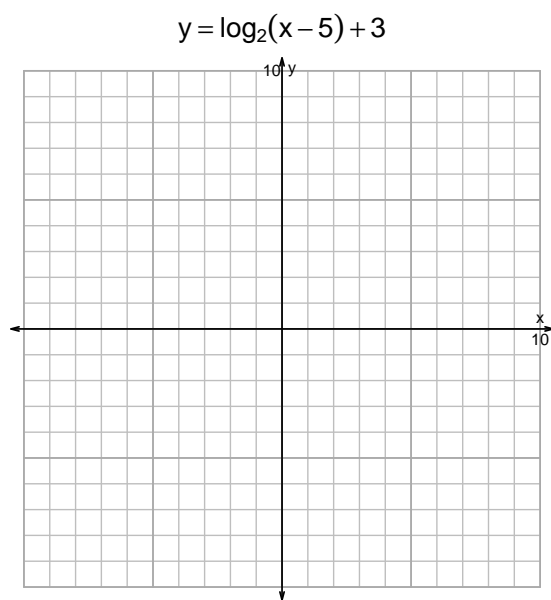
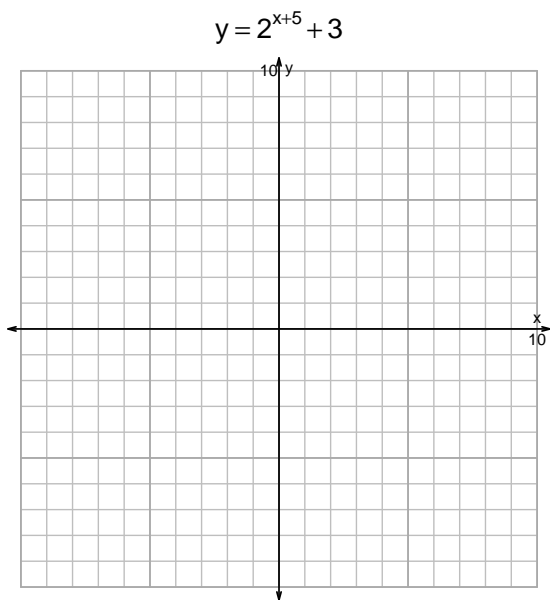


Name: \_\_\_\_\_

Date: \_\_\_\_\_

s18QUIZ: EXP LOG (PRACTICE v130)

1. Graph  $y = 2^{x+5} + 3$  and  $y = \log_2(x - 5) + 3$  on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-23 = \left(\frac{-4}{5}\right) \cdot 2^{-3t/7}$$

3. An exponential function  $f(x) = 0.213 \cdot e^{-2.11x}$  is graphed below on a semi-log plot.



a. Using the plot above, evaluate  $f(1.5)$ .

b. Express  $f^{-1}(x)$ , the inverse of  $f$ .

c. Using the plot above, evaluate  $f^{-1}(0.4)$ .